

**REMARKS**

Review and reconsideration on the merits are requested.

**The Telephone Interview.**

A telephone interview was conducted with the Examiner concerning the limits added to claim 7.

It was agreed that the limits regarding the lipid composition being uniformly mixed while heating at 80 to 120°C, the water being heated to 80 to 100°C and the lipid composition and water then being mixed uniformly to prepare the clear aqueous composition were supported in the specification. With respect to the not irritating to the skin limit, the Examiner wished to further consider this limit. Applicants do point out that this limit has been active in the beginning of claim 7 without objection and was presented in claim 5 (now canceled) without objection.

With respect to basis for the process limits, see page 24, at lines 11-16, and with respect to the not irritating to the skin limit, see page 3, lines 17-19, page 3, line 25 to page 25, line 4, etc.

**The New Claims**

Claim 15 is original claim 2 in method form.

Claim 16 which calls for isostearic and oleic acid find support at page 13, line 25 and in Table 1.

Claim 17 finds support in Table 1.

The species of claim 18 occur at the bottom of page 12 over to page 13.

The ceramide of claim 19 finds basis in Table 1.

The prior art:

U.S. 6,221,389 Cannell et al (Cannell); U.S. 5,661,118 Cauwet (Cauwet).

### **The Rejections**

Claims 7 and 12-14 were rejected under 35 U.S.C. §103(a) as being unpatentable over Cannell or Cannell in view of Cauwet or Cauwet in view of Cannell.

The Examiner's position on the prior art and the rejections are set forth in the Action and will not be repeated here except as necessary to an understanding of Applicants' traversal which is now presented.

### **Traversal**

Turning first to Cannell, in Cannell, the ceramide is merely described as a "ceramide". Thus, it is not clear from Cannell exactly what type of structure the ceramide of Cannell would actually have.

On the other hand, with respect to the ceramide disclosed in Cauwet, the structural formula is described and the same would include the ceramide of the present invention. However, the ceramide of the present invention is different from that of Cauwet from the point that the ceramide of the present invention, as set forth in claim 15, is an optically active material, while the ceramide of Cauwet is in racemic form. Cauwet contains no suggestion that the ceramide of Cauwet should or could be used in optically active form. See *Ex parte* Bonfils (attached).

Applicants submit herewith a DECLARATION...1.132 (the Declaration).

As background to discussing the Declaration, with respect to the results involving the ceramide formulation in Example 5 (Table 4) of Cannell, a clear solution could be obtained only in a highly basic condition, namely at a pH of 11 or 12. The solution was not clear in an acidic to weakly basic conditions. Thus, according to Cannell, it is only possible to obtain a clear solution under highly basic conditions.

In similar fashion, according to Cauwet, although Cauwet does not specifically teach that the pH of the composition is in the range of 2 to 9 (claim 19), the actual "experimentation" in Cauwet was only carried out at a condition of a pH of 6.5, namely a weakly acidic condition. See Examples 1 to 7 and Examples 8-11 in Cauwet.

Accordingly, one of ordinary skill in the art, reviewing the combination of Cauwet and Cannell or vice-versa or reviewing these references individually, would conclude that the solutions disclosed therein containing a ceramide would only be clear under highly basic conditions.

Applicants have performed the experimentation set forth in the Declaration. Formulations were carried out with neutral components and each of the compositions of Examples 1 to 8 actually had a pH in the range of 7 to 9 as shown in the Declaration.

Thus, according to the present invention, it is possible to obtain a clear solution under neutral or weakly basic conditions (pH 7 to 9), quite different from Cauwet and Cannell.

Applicants respectfully submit that it would not be obvious to one of ordinary skill in the art from the disclosure in Cannel and Cauwet that one could obtain a clear solution which is not

irritating to the skin at a pH of 7 to 9, which can be achieved in accordance with the present invention.

### **The Declaration**

With respect to the Examples in Comparative Examples in the Declaration, these Examples and Comparative Examples correspond to the Examples and Comparative Examples in the present specification. Applicants performed the experiments described in the Declaration based on the present specification.

With respect to the rating system, Applicants advise that measurements were indeed performed according to visual observations, and the results basically are as follows. If the Examiner feels that these results would be more specific than the results set forth at page 3 of the Declaration, the Examiner is requested to contact the undersigned since a Supplemental Declaration could be filed on this point.

Clear: No turbid material was observed according to visual observation.

Almost clear: Turbid material was somewhat observed, but the color of the composition was not yet white according to the visual observation.

Slightly white-turbid: Turbid material was observed and the color of the composition was slightly white according to the visual observation.

White-turbid: The color of the composition was clearly white according to the visual observation.

### **Comments on Newly Added Claims**

Applicants have already commented upon claim 15 (optically active claim).

With respect to the other claims, quite clearly the combinations now claimed are not suggested by Cannell or Cannell in view of Cauwet or Cauwet in view of Cannell.

Should the Examiner be unconvinced of the patentability of claim 7, the Examiner is respectfully requested to consider on an individual basis the patentability of the remaining claims.

**Rejections under 35 U.S.C. § 112**

At pages 2 and 3 of the Action, the Examiner poses rejections under 35 U.S.C. § 112, first paragraph and second paragraph.

With respect to the first paragraph rejection, the language now used in claim 7 is believed to respond to this rejection.

With respect to heating not occurring during mixing, during the telephone interview, the Examiner's attention was directed to page 24, lines 11/12.

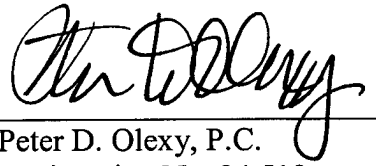
With respect to the second paragraph rejection, it is believed that claim 7 now clearly defines what is being heated.

However, if the Examiner feels that any other language would be appropriate, the Examiner is requested to contact the undersigned at the later given telephone exchange so that a telephone interview may be conducted.

AMENDMENT UNDER 37 C.F.R. §1.111  
U.S. Appln. No. 09/848,225

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: April 13, 2006

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**FULL TEXT OF CASES (USPQ2D)**

All Other Cases

(Unpublished) Ex parte Bonfils, 64 USPQ2d 1456 (BdPatApp&Int 2002)

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(Unpublished) Ex parte Bonfils, 64 USPQ2d 1456 (BdPatApp&Int 2002)

**(Unpublished)  
64 USPQ2D 1456  
Ex parte Bonfils**

**U.S. Patent and Trademark Office, Board of Patent Appeals and  
Interferences**

**Appeal No. 2001-2138  
Decided February 20, 2002**

**Released August 27, 2002**

**Unpublished Opinion**

(Non-precedential)

**Headnotes**

**PATENTS**

**[1] Practice and procedure in Patent and Trademark Office —Board of Patent Appeals and Interferences —  
Rules and rules practice (§110.1105)**

Patent examiner who relies on document that is in foreign language bears burden of providing English language translation thereof, at latest, before forwarding appeal to Board of Patent Appeals and Interferences, just as applicant who relies on document in foreign language for rebuttal of rejection must produce English translation in support of his or her position; although examiner and applicants may be able to advance prosecution of case without translation, to extent patentability of claims depends on foreign language reference, record will be incomplete and inadequate until translation has been entered, and in no case should appeal reach board without translation of any foreign language document relied upon by either examiner or applicant.

**[2] Patentability/Validity — Obviousness — Relevant prior art — Particular inventions (§115.0903.03)**

There is no per se rule that claimed stereoisomer is obvious in view of disclosure of another

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stereoisomer in prior art; in present case, patent examiner's rejection of claims for chemical compounds based on disclosure of stereoisomer of claimed compounds in prior art reference is reversed, since there is no evidence in record that ordinary steroid chemist would have expected that enantiomers of prior art compounds would be useful for controlling male fertility in mammals by affecting fertilizing power of spermatozoid, as disclosed by applicants, or that said enantiomers would have any particular pharmacological activity.

### Case History and Disposition

Appeal from examiner's rejection of claims in application for patent.

Patent application of Armelle Bonfils and Daniel Philibert, serial no. 08/403,276.<sup>1</sup> Applicants appeal from examiner's rejection of claims 1-5 for obviousness pursuant to 35 U.S.C. §103(a). Reversed.

[Editor's Note: The Board of Patent Appeals and Interferences has indicated that this opinion is not binding precedent of the board.]

### Judge:

Before William F. Smith, administrative patent judge, McKelvey, senior administrative patent judge, and Nagumo, administrative patent judge.

### Footnotes

<sup>1</sup>Application for patent filed March 13, 1995. Appellants claim priority under 35 U.S.C. §119 to April 1, 1994, based on an application filed in France. The real party in interest is Roussel Uclaf, of Paris, France (Brief, Paper No. 18, at 1.)

### Opinion Text

### Opinion By:

Nagumo, J.

### ON BRIEF 2

Decision on appeal under  
35 U.S.C. §134

[Unpublished] This appeal is from a decision of a primary examiner rejecting claims 1 through 5. Claim 6 has been withdrawn from consideration. We reverse.

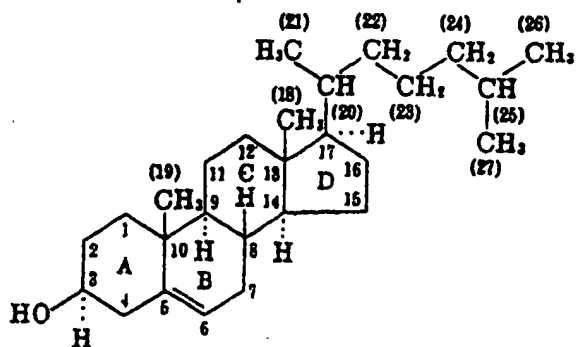
### A. Findings of fact

### Background

[Unpublished] 1. Compounds that are mirror images of one another are called "enantiomers." See *In re May*, 574 F.2d 1082, 1085, 197 USPQ 601, 603 (CCPA 1978) for a brief review of stereochemical terminology and conventions. Such compounds are also called "chiral" ('handed'), and "antipodal." (E.g., Brief at 4.)

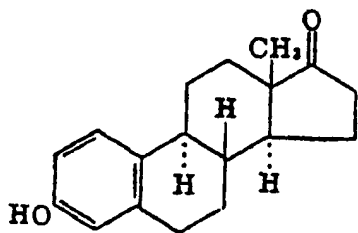
[Unpublished] 2. The standard numbering system for steroids is as follows:





[Unpublished] (Louis F. Fieser & Mary Fieser, Steroids 1 (1959) ("Fieser").

[Unpublished] 3. The naturally occurring steroid estrone has the following stereochemistry:



Estrone

[Unpublished] (Fieser at 464.)

[Unpublished] An atom or group that lies below the plane of the paper is depicted by a dashed line leading to the group, and denoted "a" in the chemical name. An atom or group that lies above the plane of the paper is depicted by a solid line, dark triangles or thickened lines leading to the group, and denoted "b" in the chemical name. (*May* at 1085, 197 USPQ at 603.) Bonds to atoms or groups that can lie above or below the plane of the paper are denoted by wavy lines. (Spec. at 3, ll.6-9.)

### *The invention*

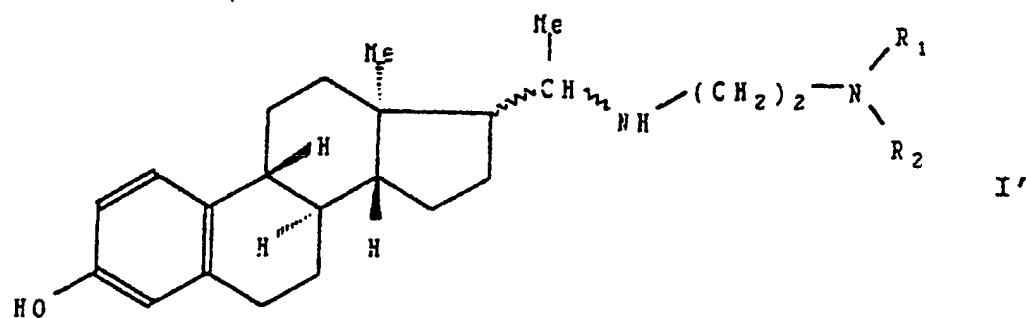
[Unpublished] The record supports the following findings by at least a preponderance of the evidence.<sup>3</sup>

[Unpublished] 4. The invention relates to certain stereoisomers of 20-substituted steroids, and their pharmaceutically acceptable salts. (Spec. at 2.)

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[Unpublished] 5. According to Appellants, the compounds are useful for controlling male fertility in mammals (*id.*), by affecting the fertilizing power of the spermazoid. (Spec. at 14, ll. 16-18.)

[Unpublished] 6. A preferred compound within the scope of Appellants' invention has the structure shown in formula I':



[Unpublished] where  $R_1$  and  $R_2$  are methyl.

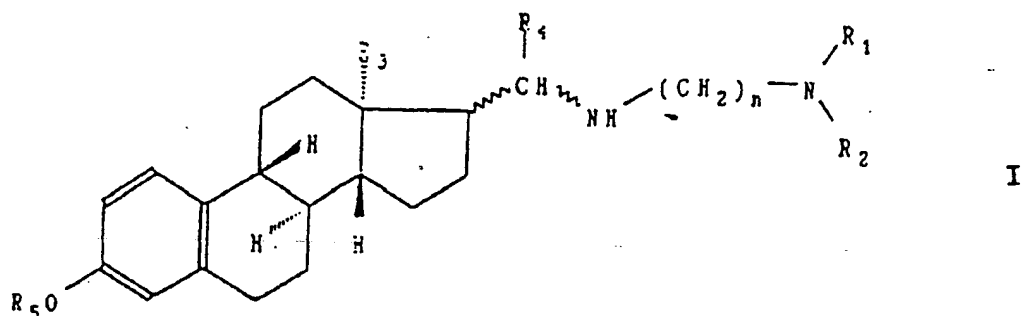
[Unpublished] 7. This compound is named (20S) (8a 9b, 13a, 14b, 17a) 20-[[[(dimethylamino)-ethyl]-amino]-19-nor-D<sup>1,3,5(10)</sup>-pregnatrien-3-ol. (Spec. at 5, II 10-12; claim 5.)

[Unpublished] 8. Comparison of the structure of formula I' with the structure of naturally occurring estrone shows that Appellants are claiming compounds wherein the B, C, and D fused rings are the mirror image of the naturally occurring estrone ring structure.

### The claims

[Unpublished] 9. Claim 1 is representative and reads as follows:

[Unpublished] A compound selected from the group consisting of a compound of the formula



[Unpublished] wherein  $R_1$  and  $R_2$  are individually selected from the group consisting of alkyl of 1 to 12 carbon atoms and aralkyl of 7 to 15 carbon atoms or taken together form [sic, from] a saturated heterocycle of 5 to 6 ring members optionally having a second ring heteroatom selected from the group consisting of sulfur, oxygen and nitrogen,  $R_3$  is an  $\alpha$ -alkyl of 1 to 8 carbon atoms,  $n$  is an integer from 2 to 15,  $R_4$  is alkyl of 1 to 12 carbon atoms,  $R_5$  is

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selected from the group consisting of hydrogen, alkyl of 1 to 12 carbon atoms and acyl of an organic carboxylic acid of up to 12 carbon atoms and the wavy lines indicate that the 17- and 20- asymmetrical centers are independent of the absolute R and S configurations and their non-toxic, pharmaceutically acceptable acid addition salts.

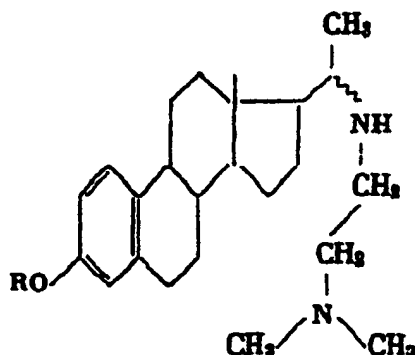
### The examiner's rejections

[Unpublished] 10. Claims 1 through 5 were rejected under 35 U.S.C. §103(a) as being unpatentable over French patent document 1,380,424 ("RU-I"), or French patent document 90,805 ("RU-II"), both assigned to Roussel-Uclaf. On receipt by the board, no translation for either document was present in the application file.

### Roussel-Uclaf I

[Unpublished] 11. U.S. Patent No. 3,156,619, issued to Bertin and Nedélec on November 10, 1964 ("Bertin"), claims priority in part from RU-I. Although Bertin contains material not included in RU-I, the parallel cites *post* confirm the sense of the French text. We stress that the examiner did not cite Bertin, and that we use it as an informal translation to confirm our reliance on chemical formulas and names disclosed by RU-1.

[Unpublished] 12. RU-I concerns compounds having the structure:



[Unpublished] where R represents hydrogen, a lower alkyl radical, or an acyl radical of a lower organic acid. (Roussel-Uclaf I at 1, left column; Bertin at col. 1, ll. 15-30.)

[Unpublished] 13. These compounds may be named 3-OR-20-(N,N-dimethylaminoethylamino)-19-nor-D<sup>1,2,5(10)</sup>-pregnatrienes. (RU-I at 1, right column, ll.5-6; Bertin at col. 2, ll.69-70, and Table I at col. 3 (chemical reaction scheme).)

[Unpublished] 14. The compounds are disclosed to have antilipemic and hypocholesterolemiantic activities, and to lack any estrogenic activity. (RU-I at 1, left column, second paragraph; Bertin at col. 2, ll.40-43.)

[Unpublished] 15. The disclosed synthesis of the inventive compounds begins with compounds of formula II, such as 3-OR 20-oxo 19-nor D<sup>1,3,5(10)</sup>-pregnatriene. (RU-1 at 1, left column, last paragraph (see also the chemical scheme on the last page); Bertin at col. 2, ll.49-57.)

### RU-II

[Unpublished] 16. RU-II concerns 11-hydroxy derivatives of the compounds disclosed by RU-I. These are compounds having the same structure as those of RU-1, with a hydroxy (-OH) group attached to the C-ring at the 11-position. (RU-II at 1, left column, lower chemical structure.)

### The examiner's rationale

[Unpublished] 17. In the examiner's words, "[b]oth references teach 20-(b-N,N-dimethylaminoethyl)amino-19-nor-1,3,5(10)-pregnatrienes having either a hydroxy or an acyl group in the 3-position. (Answer at 3.)

[Unpublished] 18. The examiner finds that Appellants' claimed subject matter differs from the teachings of the reference by "having a different stereochemistry at the 8, 9, 13 and 14 positions." (*Id.* at 4.)

[Unpublished] 19. The examiner then observes that "the claimed compounds are stereoisomers of the compounds taught by the references." (*Id.*)

[Unpublished] 20. The examiner concludes that "[i]n the absence of unobvious results, a single isomer of a compound would be obvious to one having ordinary skill in the art." (*Id.*)

[Unpublished] 21. The examiner argues that the evidence of unexpected results presented by Appellants is unpersuasive because they did not provide side-to-side comparisons of the new enantiomer and the known enantiomer. Hence, according to the examiner, Appellants have not shown that “the two isomers would have different properties or that the claimed compounds have some unexpected or superior property.” (*Id.*)

### *Appellant's argument*

[Unpublished] 22. In response to the first office action on the merits of the application rejecting claims 1-5 over RU-II, Appellants enclosed a copy of RU-I and stated:

[Unpublished] “the compounds disclosed in the references have the normal stereochemistry of the

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pregnane derivatives which is 8b 9a 13b 14a and in contrast thereto, the compounds of Applicants' invention have the *unusual* antipodal configuration of 8a 9b 13a 14b. This unnatural configuration of the steroids of Applicants' invention is obtained by a process in which the starting compound is the antipodal (-)-estrone (8a 9b 13a 14b), whereas, the prior art compounds start with the natural (+)-estrone (8b 9a 13b 14a) in the reaction sequence. [Paper No. 7 at 2, emphasis original.]

[Unpublished] 23. Appellants argue that the references relied on by the Examiner do not teach Appellants' specific 8a, 9b, 13a, 14b configuration of steroids. (Brief at 3.)

[Unpublished] 24. Appellants also argue that the references fail because they do not enable those of ordinary skill in the art to make the claimed antipodal compounds. (*Id.* at 3-4.)

[Unpublished] 25. Appellants argue further that evidence of record (Crossley<sup>4</sup>) shows that the pharmaceutical activity of a new single stereoisomeric form “is not obvious to envisage” compared to a known stereoisomeric form or a known racemic mixture. (Brief at 4.)

[Unpublished] 26. Appellants urge that one skilled in the art would not have been able to predict the discovered effect on spermazoid levels based on the known antilipemic activity of the reference compounds. (*Id.*)

[Unpublished] 27. Appellants conclude that the obviousness rejection fails.

### B. Discussion

[Unpublished] We shall not sustain the examiner's rejection, which is based on an inadequate evidentiary record, and which fails to establish a *prima facie* case of unpatentability.

### *The evidentiary record*

[Unpublished] Findings of fact and conclusions of law by the USPTO must be made in accordance with the Administrative Procedure Act, 5 U.S.C. §706(A), (E) (1994). *Zurko v. Dickinson*, 527 U.S. 150, 158, 119 S.Ct. 1816, 1821, 50 USPQ2d 1930, 1934 (1999). Our reviewing court has held that findings of fact must be supported by substantial evidence within the record. *In re Gartside*, 203 F.3d 1305, 1315, 53 USPQ2d 1769, 1775 (Fed. Cir. 2000) (“Because our review of the Board's decision is confined to the factual record compiled by the Board ... the ‘substantial evidence’ standard is appropriate for our review of Board factfindings. See 5 U.S.C. §706(2)(E).”) In the present case, the absence of English translations of the French documents is a serious gap in the evidentiary record.

[Unpublished] The examiner has relied on two French patent documents as evidence of unpatentability. In this case, it appears that Appellants have not been disadvantaged in responding to the rejections, as they provided the documents<sup>5</sup>

and are French nationals. Thus, we may presume they reviewed and understood the French-language documents. In reviewing the record presented on appeal, however, we cannot say the same of ourselves. If we were to rely strictly on the documents of record, we would be unable to make adequate factual findings regarding the teachings of the French language references, and what they would have meant to one of ordinary skill in the art. Thus, we would be unable to explain the evidentiary basis for our holding of affirmance or reversal. This alone is sufficient basis for reversal or remand.

[Unpublished]

[1] When the examiner, as here, relies on a document that is in a foreign language, the examiner bears the burden of providing an English translation, at the latest, before forwarding the appeal to the board. Similarly, when the Applicant relies on a document that is in a foreign language for rebuttal of a rejection, the Applicant bears the burden of producing an English translation to support his position. In the past, the board has often expended the resources necessary to obtain a translation of a foreign language patent or technical article. When it did so, however, the burden of examining the claims with respect to that translation fell on the board in the first instance. Moreover, to the extent that the board relies on parts of a translation not previously provided to an applicant, any affirmance generally has to be a new ground of rejection under 37 CFR §1.196(b)—which can result in further prosecution. Clearly, this procedure is inefficient and wastes the time and resources of the USPTO and Appellants.

[Unpublished] Efficient prosecution dictates that, when a rejection (or rebuttal) is founded on a document that is not in English, a translation be provided as soon as possible. When, as here, the Applicants can read and understand the

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reference, and when there appears to be no dispute about what the reference teaches, reliance on a translation provided to the board along with the examiner's Answer may not merit a new ground of rejection. When the Applicants or their representatives cannot read the non-English language, however, they may not be able to form an adequate understanding of the reference to rebut the rejection on the merits or to amend the claims to avoid the reference. In such cases, Applicants should insist that the examiner provide a translation before a final rejection is entered, seeking supervisory intervention if necessary. By the same token, if Applicants rely on a foreign language reference to rebut a rejection, the examiner may insist on a translation as a condition of a complete response, just as a declaration submitted in a foreign language, without a certified translation, would have no weight. We do not encourage *pro forma* objections: in some cases, the examiner and Applicants may be able to advance prosecution of a case without a translation. To the extent that the patentability of claims depends on a foreign language reference, however, the record will be incomplete and inadequate until a translation has been entered. In no case should an appeal reach the board without a translation of any foreign language reference relied on by either the examiner or the Applicant.

[Unpublished] In this case, unusual circumstances, described in the next section, permit an immediate resolution of this appeal.

### *The prima facie case of obviousness*

[Unpublished] In the following discussion, we shall refer only to RU-1, as the examiner and Appellants appear to treat them cumulatively, and because Bertin, a patent in the same "family" that claims priority, in part, on RU-1, provides some guidance. We feel this is a reasonable way to proceed because the examiner and Appellants do not appear to have disputed their characterizations of the references. Only the inferences and conclusions each draws from the references are in dispute.

[Unpublished] The burden is on the examiner to establish a *prima facie* case of obviousness of the claimed subject matter over prior art references. *In re Deuel*, 51 F.3d 1552, 1557, 34 USPQ2d 1210, 1214 (Fed. Cir. 1995). Only after that burden is met must the applicant come forward with arguments or evidence in rebuttal. *Id.* Findings of fact must be supported by substantial evidence in the record. *In re Gartside*, 203 F.3d 1305, 1315, 53 USPQ2d 1769, 1775 (Fed. Cir. 2000). A rejection under §103 is proper only when "the PTO establishes that the invention as claimed in the application

is obvious over cited prior art, *based on the specific comparison of that prior art with claim limitations.*" *In re Ochiai*, 71 F.3d 1565, 1572, 37 USPQ2d 1127, 1133 (Fed. Cir. 1995) (emphasis added).

[Unpublished] The only fact relied on by the examiner in this appeal is that RU-1 discloses a stereoisomer of the claimed compounds. (See the Answer at 4; the final office action on the merits, Paper No. 12 at 2-3; and the first office action on the merits, Paper No. 8 at 3.) While a single disclosed chemical structure or formula might suffice as the *sole* evidence of unpatentability in a rejection under 35 U.S.C. §102 for anticipation, such will rarely, if ever, suffice as substantial evidence of obviousness under §103(a). This is because the examiner must explain why the differences would have been obvious, and the explanation must be supported by evidence in the record.

[Unpublished]

[2] In the present case, the examiner appears to have relied on a *per se* rule that a stereoisomer is obvious in view of a disclosure of another stereoisomer in the prior art. (Answer at 4.) This is error. *Ochiai* at 1572, 37 USPQ2d at 1133 ("reliance on *per se* rules of obviousness is legally incorrect and must cease.") Moreover, the cases cited by the examiner (Paper No. 8 at 3) do not support the examiner's position.

[Unpublished] In the most recent case relied on by the examiner, *In re Deuel*, 51 F.3d 1552, 34 USPQ2d 1210 (Fed. Cir. 1995), the court explained that a *prima facie* case of obviousness based on structural similarity *may* arise if the "[s]tructural relations provide the requisite motivation or suggestion to modify known compounds to obtain new compounds. For example, a prior art compound may suggest its homologs because homologs often have similar properties and therefore chemists of ordinary skill would ordinarily contemplate making them to try to obtain compounds with improved properties." *Id.* at 1558, 34 USPQ2d at 1214. The court stressed that "[i]n the case before us there must be adequate support in the prior art for the...change in structure, in order to complete the PTO's *prima facie* case and shift the burden of going forward to the applicant." *Id.*, quoting *In re Grabiak*, 769 F.2d, 729, 731-32, 226 USPQ 870, 872 (Fed. Cir. 1985). See also, e.g., *In re Payne*, 606 F.2d 303, 313, 203 USPQ 245, 254 (CCPA 1979) ("An obviousness rejection based on similarity in chemical structure and function entails the motivation of one skilled in the art

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to make a claimed compound, in the expectation that compounds similar in structure will have similar properties."); *May*, 574 F.2d at 1094, 197 USPQ at 611 ("the basis of the *prima facie* case of obviousness, at least to a major extent, is based on the presumed expectation that compounds which are similar in structure will have similar properties."). Nothing in these cases supports the examiner's apparent position that the disclosure of one enantiomer is sufficient by itself to establish a *prima facie* case of obviousness of the other enantiomer. Where, as here, there is evidence of unpredictability (e.g., Crossley), and no evidence of common pharmaceutical or biological properties 6, the "presumed expectation" of similar properties due to the similar structures is not well-founded.

[Unpublished] Examination of the remaining cases cited by the examiner shows that words that might be interpreted as establishing a *prima facie* case of obviousness of a claimed stereoisomer over the enantiomer disclosed in the prior art are either *dicta* because they were not necessary for the disposition of the case, or they were made within the context of the record before the court, and are thus of limited general applicability.

[Unpublished] In *In re Adamson*, 275 F.2d 952, 125 USPQ 233 (CCPA 1960) the court upheld an obviousness rejection of claims to "[a] laevo-isomer of a compound ... substantially separated from the dextro-isomer" over references disclosing the racemate, i.e., a mixture of equal amounts of the enantiomers. More specifically, the references disclosed synthetically produced compounds of the same formula claimed. A chemistry text taught that synthetically produced substances containing asymmetric carbon atoms responsible for optical activity are optically inactive due to the formation of equal amounts of the laevo- and dextro-isomers. *Adamson* at 953, 125 USPQ at 234. Adamson argued that the invention was patentable because they discovered that the prior art product was a racemate, i.e., comprised of optical isomers, that the isomers could be separated, and that there were unexpected results. The court rejected the first two arguments, finding that, in view of the textbook, one of ordinary skill in the art would have recognized the

reference product to be a racemate, and would also know how to separate the isomers. *Id.* at 954-55, 125 USPQ at 235. Finally, the court found the evidence of unexpected results was not persuasive, and so affirmed the rejection. Because the court did not rely on the general proposition that one optical isomer is *prima facie* obvious over its enantiomer, *Adamson* does not stand for that proposition.

[Unpublished] In *Brenner v. Ladd*, 247 F.Supp. 51, 147 USPQ 87 (D.D.C. 1965), the district court agreed that, “in the absence of unexpected or unobvious beneficial properties, an optically active isomer is unpatentable over either the isomer of opposite rotation or, as in this case, the racemic compound itself.” *Id.* at 56, 147 USPQ at 91. The court’s decision, however, appears to be based on its factual finding that the only disclosed utility for the compounds L-acl or L-acl.HCL was their use as intermediates in the production of L-lysine. *Id.* The court held, however, that this utility would have been obvious over a prior art teaching that DL-acl (the racemate) could be hydrolyzed to DL-lysine through the intermediate DL-acl.HCI. *Id.* In modern terminology, the court found that the only evidence of record showed that L-acl had similar properties to the known DL-acl, and held that the evidence supported a *prima facie* case of obviousness. The broad proposition is thus mere *dicta*, as it was unnecessary for the court’s decision.

[Unpublished] In *In re Anthony*, 414 F.2d 1383, 162 USPQ 594 (CCPA 1969), Anthony conceded a *prima facie* case of obviousness of the claims to d-and l-enantiomers over a prior art teaching of the racemate. *Id.* at 1386, 162 USPQ at 596. Thus, the issue was not in controversy, and the court’s statements, which are limited to reporting the course of proceedings below, are *dicta*.

[Unpublished] The examiner has not directed our attention to any evidence in the record that the ordinary steroid chemist would have expected that the enantiomers of the RU-1 compounds would have affected spermazoid activity, as disclosed by Appellants, or that the enantiomers would have any particular common pharmacological properties. Thus, the examiner has not shown that RU-1 provides any suggestion to make or use the claimed enantiomers. Accordingly, we reverse this rejection.

[Unpublished] Appellants appear to urge that the failure of RU-1 to teach any utility for the claimed compounds, and the known unpredictable nature of the changes in activity, toxicity, and utility due to changes in chirality, require reversal of

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the examiner’s rejection. (Brief at 4.) To the extent that Appellants intend to argue that the examiner has not established any basis for concluding that one of ordinary skill in the art would have had a reasonable expectation that the claimed compounds would have similar biological properties as the reference compounds, we agree that a *prima facie* case of obviousness has not been established, and that the rejection must be reversed for this reason as well.

#### *Further considerations*

[Unpublished] In the event of further prosecution, the examiner and Appellants should consider the following issues:

#### *Information disclosure statement*

[Unpublished] The information disclosure statement filed April 3, 1995, in Paper No. 3, has not been initialed by the examiner, although the examiner checked a box on the first action, Paper No. 6, indicating that the Notice of Art Cited by Applicant, form PTO-1449, was attached to the action. The examiner should take appropriate action.

#### *Potential new matter issues:*

[Unpublished] The examiner and Appellants should determine whether new matter has been entered into the specification in violation of 35 U.S.C. §132. Appellants submitted amendments to the specification (Paper No. 10, at page 1), alleging that certain material was omitted due to an error of translation from their French priority document. (*Id.*, at page 3.) However, the foreign priority document does not appear to be incorporated by reference into

Appellants' specification. Under 35 U.S.C. §119, the benefit of priority is granted only to the extent that "the same application would have if filed in this country on the date on which the application for patent for the same invention was first filed in such foreign country," i.e., to the extent that common subject matter is disclosed. Absent an explicit incorporation by reference, the foreign priority document is not available as antecedent basis for amendments to the specification or claims. *Ex parte Bondiou*, 132 USPQ 356, 358 (Bd. App. 1961) (changing disclosure from "four hours" to—four days—not permitted because it introduced new matter under 35 U.S.C. §132); *see also* MPEP §2163.07 (8th Ed., August 2001). The examiner and Appellants should determine whether support for the amendments exists in the specification as filed. *See In re Oda*, 443 F.2d 1200, 1205-06, 170 USPQ 268, 272 (CCPA 1971) (permitting corrections of translation errors, explaining that the amendments did not result in any change in the claimed subject matter, and that the evidence of record was sufficient to show that one skilled in the art would have appreciated not only the existence of error, but what the error was and how to correct it).

[Unpublished] In claim 3, the definition of "n" appears to be superfluous because n does not appear in formula I'.

[Unpublished] In claim 5, a left parenthesis appears to be missing in the bracketed portion of the chemical name: 20-(((dimethylamino)-ethyl)-amino) ....

### C. Decision

[Unpublished] The rejections are *reversed*.

### D. Order

[Unpublished] Upon consideration of the appeal, and solely for the reasons given, it is ORDERED that the decision of the examiner rejecting claims 1 through 5 is *reversed*.

[Unpublished] FURTHER ORDERED that no time period for taking any subsequent action in connection with this appeal may be extended under 37 CFR §1.136(a).

**REVERSED**

### Footnotes

2 Appellants, through counsel, requested an oral hearing. (Paper No. 20, filed May 6, 1998.) Our review of the case revealed that a hearing was not necessary to assist us in the resolution of the issues on appeal.

3 To the extent these findings of fact discuss legal issues, they may be treated as conclusions of law.

4 Roger Crossley, *The Relevance of Chirality to the Study of Biological Activity*, 48 *Tetrahedron* 8155, 8156, 8174, 8175 (1992), filed attached to Paper No. 14 on November 12, 1997.

5 RU-1 was filed with Paper No. 7 on August 1, 1996; RU-2 was filed with Paper No. 3 on April 3, 1995.

6 We stress the absence of evidence predicting pharmaceutical or biological properties of the compounds because it is only in interactions with other chiral molecules that the properties of one enantiomer will differ from its mirror image: all properties of the enantiomers that involve interactions only with achiral molecules will be identical, by symmetry.

- End of Case -



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